

**WHAT IS CLAIMED IS:**

1. An electronic power supply for a high frequency load, comprising:
  - a high frequency section providing high frequency load current to said load;
  - a power input section receiving input power at a low AC frequency from line, comprising a doubler rectifier with two storage elements, and an isolating element connected between the doubler rectifier and power line input;
  - a resonance circuit carrying said load current, connected to said high frequency section, and to said power input section between said isolating element and said doubler rectifier with storage elements, for causing current to be drawn through said isolating element, and to be delivered to said energy storage element, as high frequency current pulses.